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NOTICE OF ALLOWANCE AND FEE(S) DUE

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05/20/2008

CAVEN & AGHEVLI c/o INTELLEVATE, LLC P.O. BOX 52050 MINNEAPOLIS, MN 55402

EXAMINER CHAUDRY, MUJTABA M ART UNIT PAPER NUMBER 2112

DATE MAILED: 05/20/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,404	09/10/2003	Niklas Linkewitsch	P17148	5846

TITLE OF INVENTION: FORWARD ERROR CORRECTION MAPPING AND DE-MAPPING TECHNIQUES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/20/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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CAVEN & AC c/o INTELLEV. P.O. BOX 5205	ATE, LLC 0	I he Stat add trar	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
MINNEAPOLIS	S, MN 55402						(Depositor's name)
							(Signature)
							(Date)
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nonprovisional	NO	\$1440	\$300	\$0 ¬		\$1740	08/20/2008
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CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atto listed, no name will be	1) the names of up to 3 registered patent attorneys r agents OR, alternatively, 2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to registered patent attorneys or agents. If no name is sted, no name will be printed. 2 2 3 PATENT (print or type)			
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Please check the appropri	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 C	orporatio	n or other private gro	up entity Government
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☐ Issue Fee☐ Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.				
Advance Order -	# of Copies		The Director is hereby overpayment, to Depo	y authorized to cha osit Account Numb	rge the re	quired fee(s), any def (enclose an	iciency, or credit any extra copy of this form).
5. Change in Entity Sta	atus (from status indicated	· · · · · · · · · · · · · · · · · · ·	b. Applicant is no lon				
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			ART UNIT PAPER NUMBER		
P.O. BOX 52050 MINNEAPOLIS, I	MN 55402		2112 DATE MAILED: 05/20/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1192 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1192 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/660,404	LINKEWITSCH, NIKLAS
Notice of Allowability	Examiner	Art Unit
	Mujtaba K. Chaudry	2112
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	orrespondence address plication. If not included n will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>response filed 3/14/20</u>	<u>008</u> .	
2. ☑ The allowed claim(s) is/are <u>22-63</u> .		
3.	been received. been received in Application No cuments have been received in this of this communication to file a reply ENT of this application. itted. Note the attached EXAMINER es reason(s) why the oath or declarate to be submitted. on's Patent Drawing Review (PTO- as Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL resuments.	national stage application from the complying with the requirements 'S AMENDMENT or NOTICE OF tion is deficient. 948) attached Office action of the back) of d). must be submitted. Note the
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08),	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☑ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☐ Other /Mujtaba K Chaudry/ Primary Examiner, Art Unit	(PTO-413), te ment/Comment ent of Reasons for Allowance

DETAILED ACTION

Claims 22-63 are presented for examination. Claims 1-21 are canceled as discussed with Applicants' representative, Ramin Aghevli, May 8, 2008.

Information Disclosure Statement

The references listed in the information disclosure statements (IDS) submitted 12/8/2003, 7/11/2005 and 12/15/2006 were considered. The submission is in compliance with the provisions of 37 CFR 1.97.

Oath/Declaration

The Oath filed December 9, 2003 complies with all the requirements set forth in MPEP 602 and therefore is accepted.

Drawings

The drawings submitted September 10, 2003 are accepted.

Specification

The specification filed September 10, 2003 is accepted.

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Examiner's Amendment

An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the

issue fee.

Authorization for this Examiner's amendment was given in a telephone interview with Ramin

Aghevli on May 8, 2008.

Please amend the application as follows:

Please cancel claims 1-21.

REASONS FOR ALLOWANCE

Claims 22-63 are allowed. The following is an Examiner's statement of reasons for allowance:

Independent claim 22 of the present application teaches, for example, an apparatus comprising: a first mapper to convert a first frame into a second frame, wherein the first frame includes an overhead portion and data portion and wherein the second frame comprises a programmable size and wherein the second frame includes column and row parity information and the overhead portion and the data portion; a synchronizer to specify locations of column and row parity information within the second frame, wherein a synchronization information

represents the column and row parity information locations; an encoder to insert column and

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row parity information into the second frame; and a second mapper to convert the second frame into a third frame, wherein the third frame includes the overhead portion, the data portion, the column and row parity information, and the synchronization information. The foregoing limitations are not found in the prior arts of record. Particularly, none of the prior arts of record teach nor fairly suggest, "...a first mapper to convert a first frame into a second frame, wherein the first frame includes an overhead portion and data portion and wherein the second frame comprises a programmable size and wherein the second frame includes column and row parity information and the overhead portion and the data portion; a synchronizer to specify locations of column and row parity information within the second frame, wherein a synchronization information represents the column and row parity information locations; an encoder to insert column and row parity information into the second frame; and a second mapper to convert the second frame into a third frame, wherein the third frame includes the overhead portion, the data portion, the column and row parity information, and the synchronization information."

Independent claims 33, 42 and 53 include similar limitations of independent claim 22 and therefore are allowed for similar reasons.

Dependent claims 23-32, 34-41, 43-52 and 54-63 depend from allowable independent claims and inherently include limitations therein and therefore are allowed as well.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mujtaba K. Chaudry whose telephone number is 571-272-3817.

The examiner can normally be reached on Mon-Fri 9-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jacques Louis-Jacques can be reached on 571-272-6962.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Mujtaba K Chaudry/

Primary Examiner, Art Unit 2112

May 8, 2008